

## Supplementary file: Quantifying antibiotic use in typhoid fever in India: A cross-sectional analysis of private sector medical audit data, 2013-15

Supplementary table 1: Recoding of IQVIA ATC groups to WHO ATC groups

Antibiotic	IQVIA ATC	WHO ATC
Ambroxol+Roxithromycin	J01FG	J01F
Amikacin	J01K3	J01G
Amoxy + Cloxa. Solids	J01CD	J01R
Amoxy. & Clav. Inject.	J01CI	J01R
Amoxy. & Clav. Liquids	J01CH	J01R
Amoxy. & Clav. Solids	J01CG	J01R
Amoxy. & Clav. Solids	J01CG	J01R
Amoxy. +Clav. +Lactob.A.	J01CL	J01R
Amoxy. +Cloxa. +Lactob.A.	J01CK	J01R
Amoxy. +Lactob.A.	J01CJ	J01R
Amoxicillin Injectables	J01C6	J01C
Amoxicillin Oral Liquids	J01C5	J01C
Amoxicillin Oral Solids	J01C4	J01C
Ampicillin Injectables	J01C3	J01C
Ampicillin Oral Solids	J01C1	J01C
Azithromycin Injectables	J01F6	J01F
Azithromycin Oral Liquids	J01F5	J01F
Azithromycin Oral Solids	J01F4	J01F
Azithromycin+Levoflox.	J01LL	J01R
Balofloxacin	J01LW	J01M
Cefadroxil + Clavulanic A	J01DH	J01R
Cefadroxil Oral Liquids	J01D5	J01D
Cefadroxil Oral Solids	J01D4	J01D
Cefdinir Oral Sol.&Liq.	J01D7	J01D
Cefixime + Azithromycin	J01D8	J01R
Cefixime + Clav. Liquids	J01D6	J01R
Cefixime + Clav. Solids	J01D3	J01R
Cefixime + Linezolid	J01M2	J01R
Cefixime + Ofloxacin	J01DS	J01R
Cefixime Oral Liq.	J01DM	J01D
Cefixime Oral Sol.	J01DL	J01D
Cefixime+Cloxa. +Lactob.A.	J01DY	J01R
Cefixime+Lactob.A.	J01DX	J01R
Cefoperazone Injectables	J01DG	J01D
Cefoperazone+Sulbactam	J01DO	J01R
Cefotaxime Injectables	J01DD	J01D
Cefpod. + Clav. Liquids	J01DQ	J01R
Cefpodoxime Liquids	J01DW	J01D
Cefpodoxime Solids	J01DV	J01D

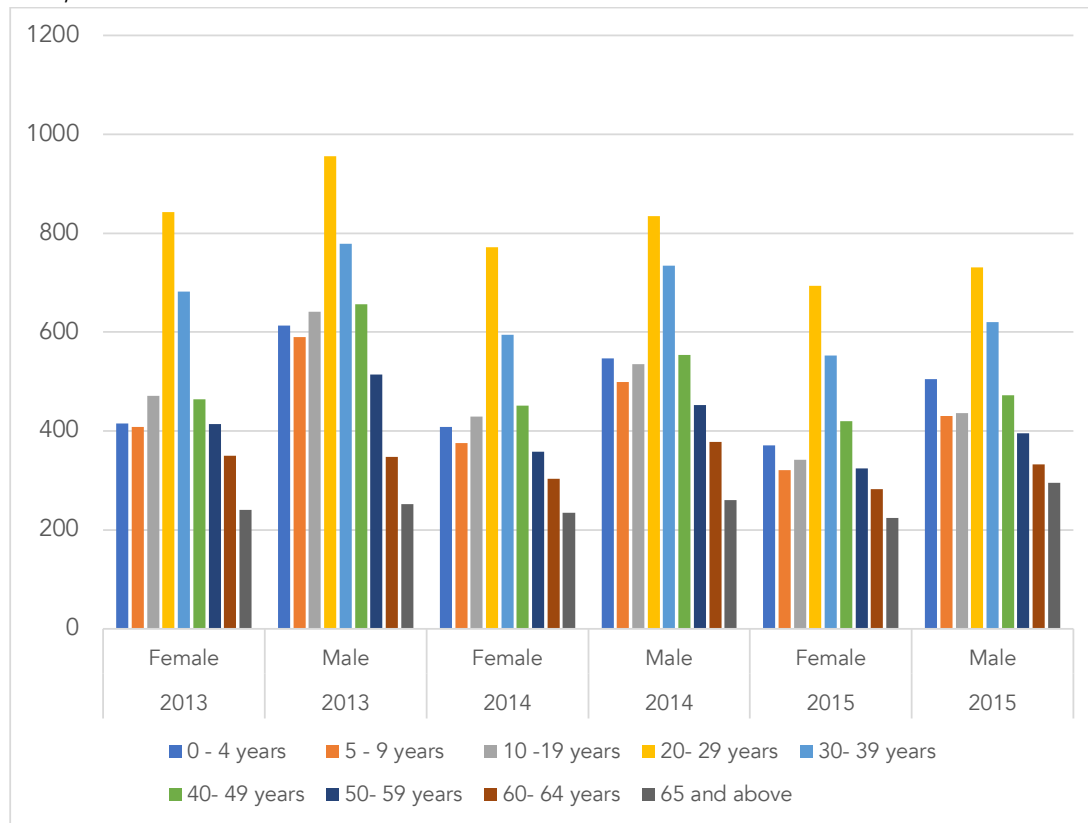
Antibiotic	IQVIA ATC	WHO ATC
Ceftazidime Injectables	J01DE	J01D
Ceftriaxone + Tazobactam	J01D9	J01R
Ceftriaxone Injectables	J01DC	J01D
Ceftriaxone+Sulbactam	J01DZ	J01R
Cefuroxime Injectables	J01DF	J01D
Cefuroxime Oral Liquid	J01DK	J01D
Cefuroxime Oral Solids	J01DI	J01D
Cephalexin Oral Liquids	J01D2	J01D
Cephalexin Oral Solids	J01D1	J01D
Chloram. - Comb. Inject.	J01B3	J01B
Chloram. - Comb. Liquids	J01B2	J01B
Chloram. - Comb. Solids	J01B1	J01B
Ciprofloxacin Injectables	J01L3	J01M
Ciprofloxacin Oral Solids	J01L1	J01M
Clarithromycin Injectable	J01FC	J01F
Clarithromycin Oral Liqui	J01FB	J01F
Clarithromycin Oral Solid	J01FA	J01F
Clavulanic Acid+Cefuroxi	J01DP	J01R
Clindamycin	J01FD	J01F
Cloxa. & Ampicomb. Inject	J01CC	J01R
Cloxa. & Ampicomb. Solid	J01CA	J01R
Colistine Inj.	J01KD	J01X
Doxycycline Oral Solids	J01A5	J01A
Doxycycline+Lactob A.	J01A8	J01R
Erythromycin Oral Liquids	J01F2	J01F
Erythromycin Oral Solids	J01F1	J01F
Faropenem	J01N2	J01D
Gatifloxacin	J01LG	J01M
Gemifloxacin	J01LI	J01M
Gentamycin	J01K1	J01G
Levofloxacin	J01LF	J01M
Lincomycin	J01FE	J01F
Linezolid	J01M1	J01X
Macrolides Combination So	J01FM	J01R
Meropenem	J01N1	J01D
Metronidazole Inj.	J01K2	J01X
Moxifloxacin	J01LH	J01M
Netilmicin	J01KH	J01G
Norfloxacin Oral Solids	J01L4	J01M
Ofloxacin Injectables	J01LE	J01M
Ofloxacin Oral Liquids	J01LD	J01M
Ofloxacin Oral Solids	J01LC	J01M
Ofloxacin+Cefpodoxime	J01LK	J01R
Oth. Amoxy. Comb. Sol.	J01CP	J01R

<b>Antibiotic</b>	<b>IQVIA ATC</b>	<b>WHO ATC</b>
Oth. Ampic. Comb. Inj.	J01CO	J01R
Oth. Ampic. Comb. Sol.	J01CM	J01R
Oth. Cephalo Liquids	J01DB	J01D
Oth. Cephalo. Inje	J01DT	J01D
Oth. Cephalo. Solids	J01DA	J01D
Oth.Cephalo.Comb.Inj.	J01DU	J01R
Oth.Cephalo.Comb.Sol&Liq.	J01DR	J01R
Other Antibiotics	J01K9	J01X
Other Penicillines-Inject	J01H2	J01C
Other Penicillines-Orals	J01H1	J01C
Other Quino.Injectables	J01LV	J01M
Other Quino.Oral Liquids	J01LU	J01M
Other Quino.Oral Solids	J01LT	J01M
Piperacillin+Tazobactam	J01K5	J01R
Prulifloxacin	J01LJ	J01M
Quino.Comb. Oral Solids	J01LX	J01R
Roxithromycin Oral Liquid	J01F8	J01F
Roxithromycin Oral Solids	J01F7	J01F
Sparfloxacin Oral Solids	J01LB	J01M
Streptomycines And Comb.	J01G1	J01G
Sulbactam+Cefotaxime	J01DJ	J01R
Tetra.Oral Solids	J01A1	J01A
Trimetho. & Simi. Liquids	J01E2	J01E
Trimetho. & Simi. Solids	J01E1	J01E

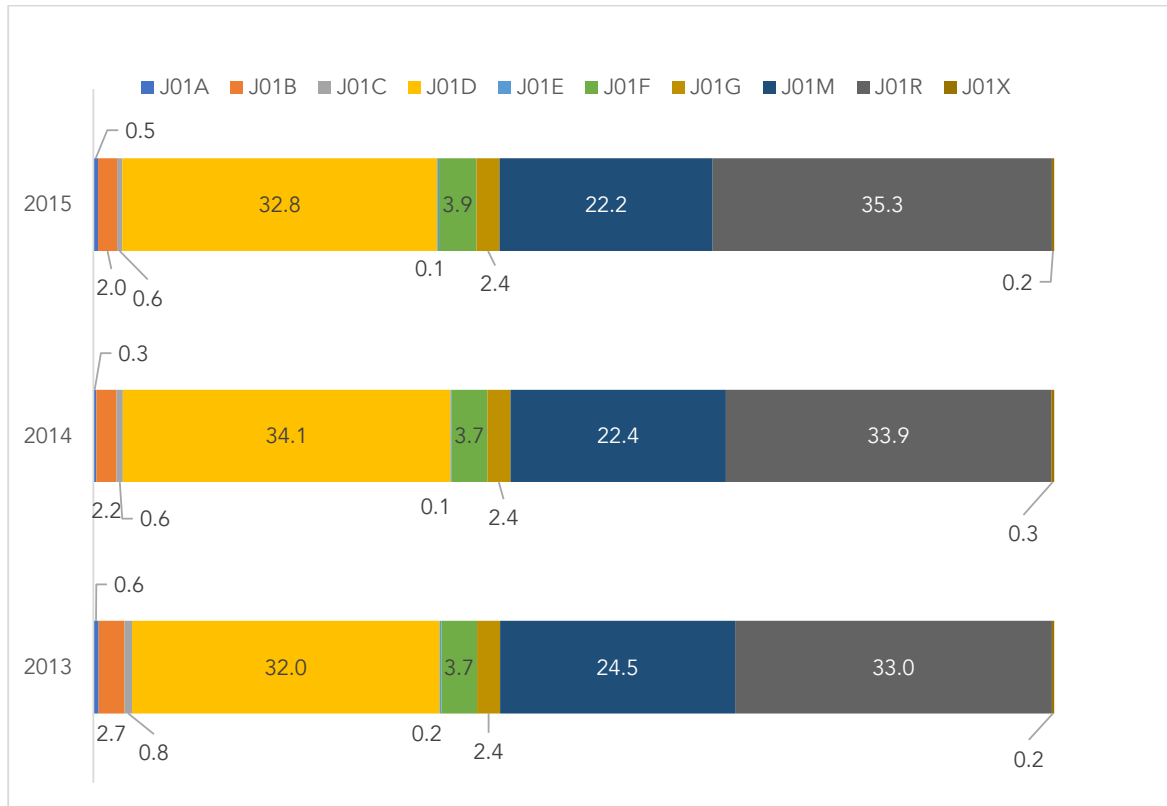
Supplementary table 2: Average rate of antibiotic prescriptions for typhoid across sexes (per 100,000 population), 2013-15

Age groups	Male	Female	Difference, %
0 - 4 years	555	398	28
5 - 9 years	507	368	27
10 -19 years	537	414	23
20- 29 years	840	769	8
30- 39 years	711	610	14
40- 49 years	561	445	21
50- 59 years	454	366	20
60- 64 years	353	312	12
65 & above	269	233	13

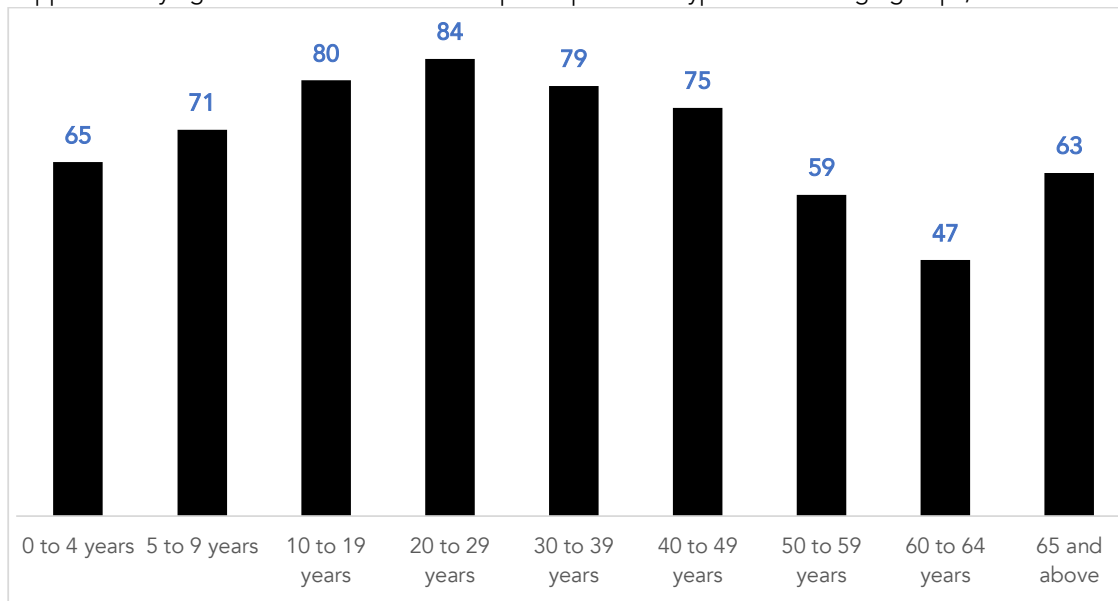
Supplementary figure 1: Age and sex specific prescription rates for typhoid (per 100,000 population) in 2013, 2014 and 2015



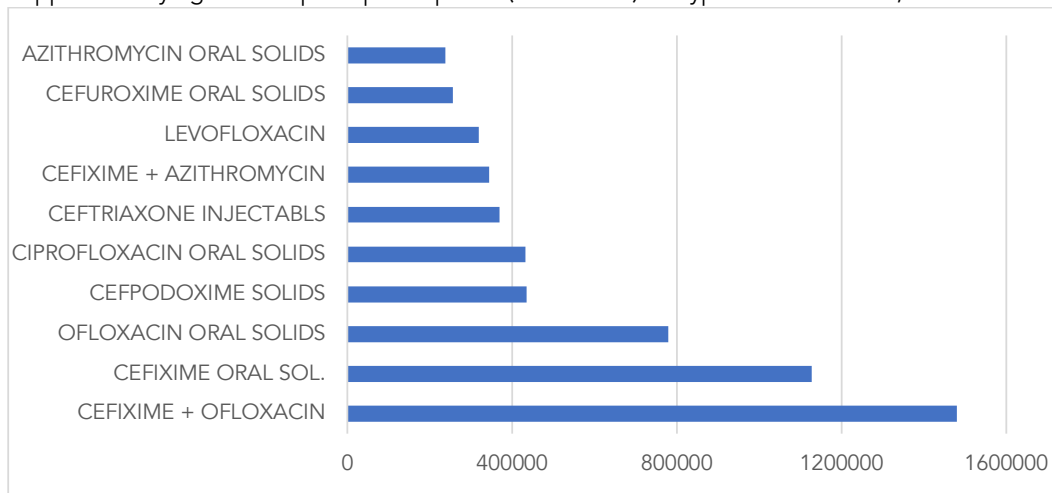
Supplementary figure 2: Share (in percentage) of various antibiotic classes for typhoid across years 2013 to 2015



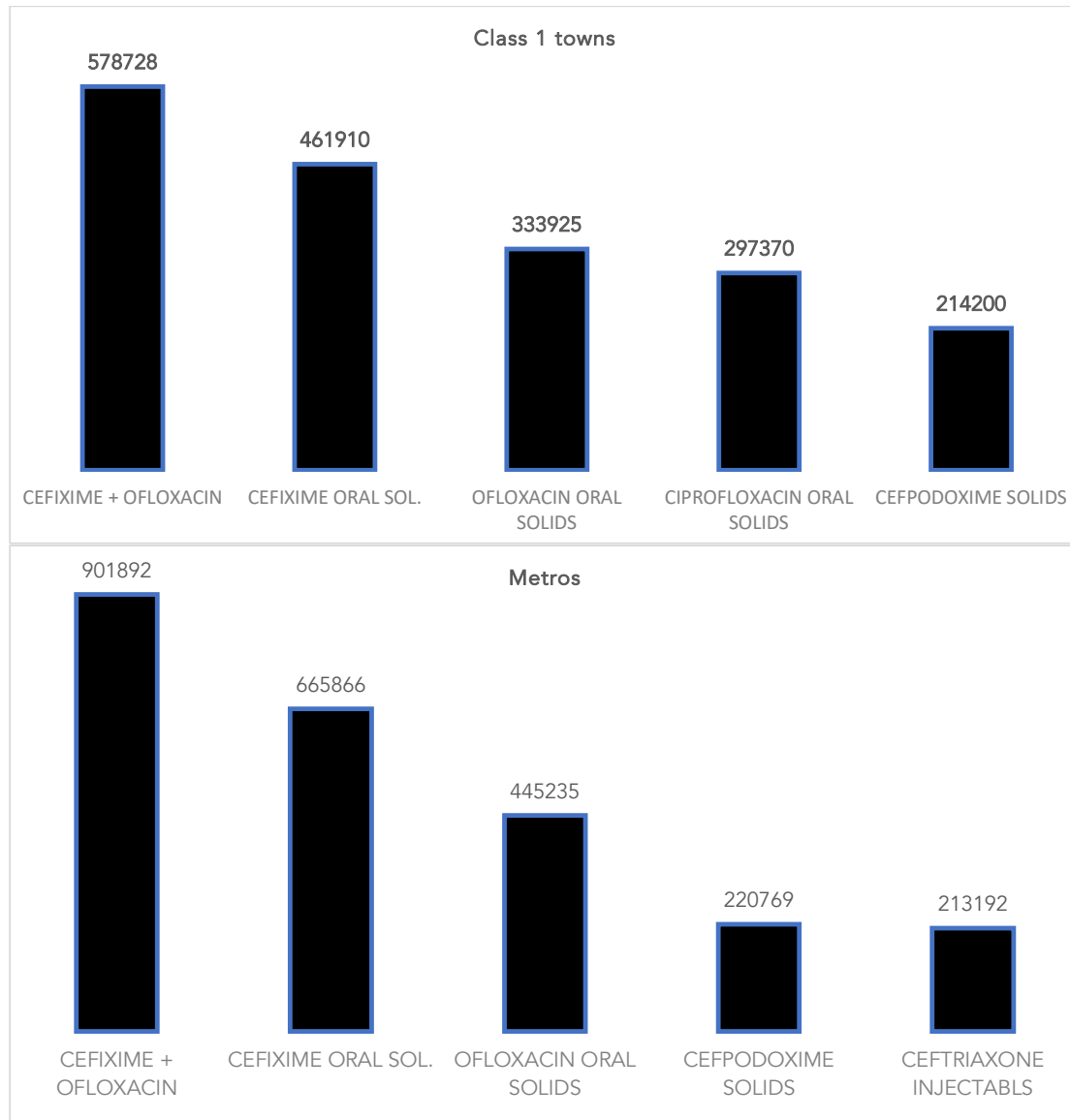
Supplementary figure 3: Number of different prescriptions for typhoid across age groups, 2013-2015



Supplementary figure 4. Top ten prescriptions (in numbers) for typhoid across India, 2015

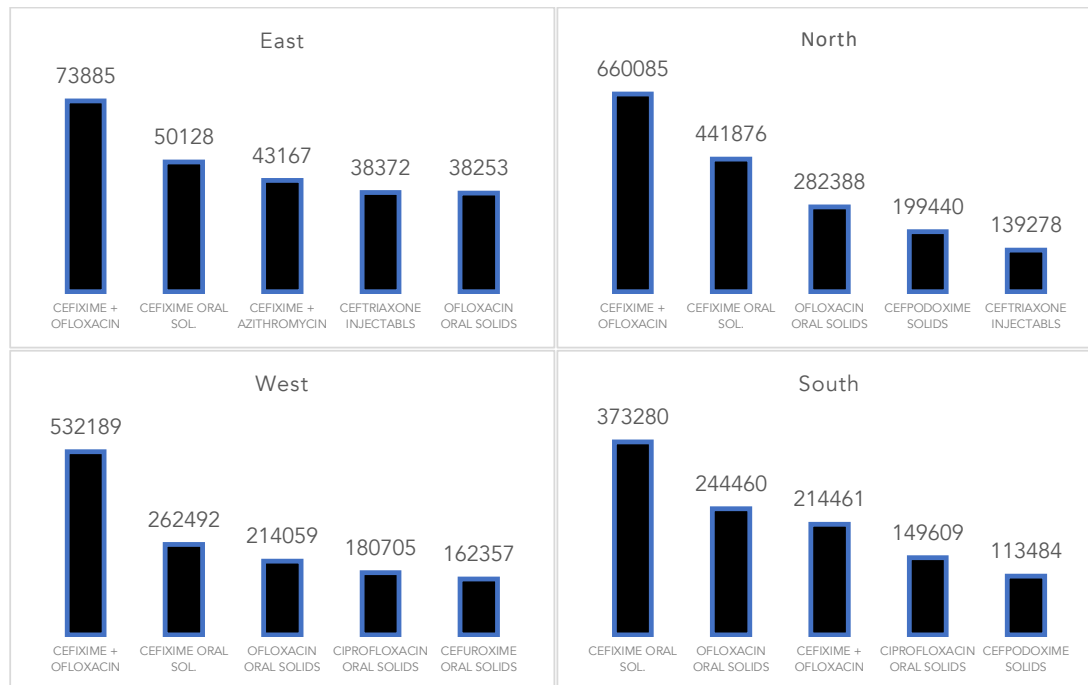


Supplementary figure 5: Top five prescriptions (in numbers) for typhoid across cities and metros, 2015 (number)





Supplementary figure 6: Top five prescriptions (in numbers) for typhoid across zones, 2015 (Numbers)



Supplementary figure 7: Age- group wise average rate of prescription of typhoid antibiotics, 2013-15

